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The origins of belonging: Social motivation in infants and young children

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Keywords: Child development; Social motivation; Need to belong; Affiliation; Ostracism; Group membership

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Abstract

Our reliance on our group members has exerted a profound influence over our motivation: successful group functioning requires that we are motivated to interact, and engage, with those around us. In other words, we need to belong. In this article, I explore the developmental origins of our need to belong. I discuss existing evidence that, from early in development, children seek to affiliate with others and to form long-lasting bonds with their group members. Furthermore, when children are deprived of a sense of belonging, it has negative consequences for their well-being. This focus on social motivation enables us to examine why and in what circumstances children engage in particular behaviours. It thus provides an important complement to research on social cognition. In doing so, it opens up important questions for future research and provides a much-needed bridge between developmental and social psychology.

The origins of belonging: Social motivation in infants and young children

Humans are deeply dependent on their group members. Only through copying their skills and practices are we able to learn how to survive in diverse, and sometimes even hostile environments (1,2). Only through cooperating with them are we able to gain access to food, shelter, and protection from attack (3). Children are born into these social groups. From early in development, they interact not only with their caregivers, but with their peers and other adults (4).

It is clear that our reliance on our group members has exerted a powerful influence over our cognitive abilities. We have sophisticated skills for understanding the mental states of those around us (5,6), engaging in joint action with our social partners (7) and learning from their behaviour (8,9). Experimental psychologists have demonstrated that many of these skills appear early in development (10,11) and that their successful performance is essential to children's functioning.

Our reliance on our group members has also exerted a profound influence over our motivation. Successful group functioning requires that we are motivated to interact, and engage, with those around us. It follows that, in order to understand children's social behaviour, it is essential to look at both social cognition and social motivation (12,13). Social motivation, however, is considerably less often the focus of experimental research with young children than is social cognition.

A focus on social motivation enables us to ask a different, and complementary set of questions about children's development. For example, to understand theory of mind, we must not only consider when in development children are first able to understand others' intentions, desires, and beliefs, and how they are able to do so (14,10,5), but why, and in what circumstances children are motivated to infer the mental states of others (12). To understand imitation, we must do more than investigate how this complex skill is acquired (15,16) and consider why children choose to imitate (17,18,19). To understand group membership, we must look beyond children's ability to categorise the social world (20-23) and consider children's desire to belong to different social groups (24,25).

Children's social behaviour is, of course, influenced by multiple motivations. Here I concentrate on one particular motivation: the need to belong. The concept of a need to belong has a long history in social psychology, but was most clearly articulated by Baumeister and Leary (26). Focusing on the literature with adults, they argued that humans seek to engage in positive interactions with others within the context of long-lasting relationships. It is sometimes described as a 'core social motive' and is thought to underlie a wide variety of social behaviour (27). The concept of the need to belong has been hugely influential within social psychology, motivating a great deal of theoretical and empirical research with adult participants (e.g., 27-31), and has provided an interpretative framework through which to understand a great deal of social behaviour. In doing so, it has brought together a plethora of seemingly disparate findings within social psychology. Although Baumeister & Leary (26) speculated that the need to belong was innately specified, they discussed very little research on its developmental and evolutionary origins.

Below I outline my argument that understanding the need to belong is critical to understanding young children's social behaviour. In doing so, I seek to build much-needed bridges between experimental social and developmental psychology (32). I discuss evidence that young children seek to form and maintain bonds with their group members and that a lack of bonds is detrimental to their well-being. The evidence I cite is often drawn from studies that were not directly designed to assess motivation. Whereas I interpret existing work in terms of this motivation, it will be left for future research to test these claims more directly within experimental settings. Indeed, following this review, I outline the broader implications of this idea and formulate a set of priorities for future research.

The Need to Belong

The idea of a need to belong has deep roots in social psychology. Schacter (33), for example, wrote about the importance of affiliation in human interaction and Maslow (34) ranked love and

belongingness in the middle of his hierarchy of needs (see also 35-37). The clearest formulation of this need, however, was provided by Baumeister and Leary (26).

According to Baumeister and Leary's (26) conceptualization, fulfilling the need to belong involved satisfying two criteria. First, individuals must have relatively frequent, positively valenced (or at least non-aversive) interactions with at least a few other people. Second, these interactions must take place within a framework of long-lasting affective concern for each other's welfare. Satisfying either of these criteria alone is not sufficient to fulfill the need - positive interactions outside of long lasting relationships will not be completely satisfying and nor will long term relationships that lack regular contact. Importantly, it is conceptualised as a need rather than simply a desire. This means that that failure to satisfy it ought to be marked by serious distress and long-term negative consequences. Failure to satisfy a mere want or desire, on the other hand, may be disappointing but it is unlikely to lead to as severe distress in the short term or to negative long-term consequences.

The concept of the need to belong can be distinguished from a number of related theoretical perspectives. First, it is not simply a drive for social contact or a desire to interact with cooperative individuals (38,39), although it encompasses both of these preferences. According to the need to belong perspective, positive interactions should be appealing primarily as the first step towards the formation of longer-term bonds. Thus interacting positively with the same individual multiple times should be more rewarding than interacting only once with several different individuals.

Second, the need to belong is distinct from the motivation to share psychological states with others (40, 13). Tomasello and colleagues (13) emphasised the importance of studying social motivation in development and proposed that humans have a species unique motivation to share others goals, intentions and perceptions of the world. This motivation, they argued, enables complex forms of cooperation. In contrast, the need to belong does not relate specifically to cooperation, but rather to social contact more generally. The need to belong perspective predicts that individuals should seek positive contact with others. This contact could involve complex forms of cooperation,

and indeed cooperation may be a particularly important way of fulfilling belongingness needs, but it need not necessarily do so. In other words, positive social contact should be rewarding even when it does not involve cooperation.

Finally, as Baumeister and Leary (26) themselves emphasised, the need to belong is different in its emphasis from attachment theory (41). The need to belong is not focused on one particular individual (the caregiver) but rather on significant social relationships in general. Furthermore, the caregiver relationship is not necessarily seen as the starting point from which other important relationships are understood (26). The need to belong perspective predicts that, in addition to the caregiver relationship, interactions and relationships with unrelated others ought to be important from early in development.

I do not propose that the need to belong can supplant these other perspectives. Rather, I argue that it is an important addition to them. Indeed, the interaction between these different mechanisms and motivations and the need to belong is an extremely promising topic for future research (see, for example, 42).

Belonging in Development

Seeking Interaction and Affiliation

The first aspect of the need to belong is that individuals seek positive social interactions with others. There is considerable evidence that, from early in development, children take pleasure in social interactions and engage in behaviours that serve to prolong positive engagement. For example, by 8 weeks of age, infants smile in response to their social partners (43-45) and by 12 weeks of age, they rarely smile outside of positive face-to-face exchanges with others (46). Around the same age, infants start to engage in protoconversations: sequences in which an adult and infant take turns vocalizing and smiling at each other (47). These exchanges serve to prolong interactions with others. Importantly, these social exchanges are not restricted to the infants' caregivers but also occur with relative strangers in laboratory settings (46). They are not, therefore, simply reflective of the infant-caregiver bond but suggestive of a more general pleasure in social interaction.

Slightly later in development, children actively engage in affiliative behaviours. One example of this is joint attention in which infants seek to share attention and interest with others (48). Another example is imitation (17,18,49). Previous research with adults has shown that imitation is closely associated with affiliation (50) and the same appears to be true for young children. For example, eighteen-month-olds are significantly more likely to copy the specific actions of a model who appears warm and friendly rather than those of a model who appears cold and aloof (51) and twenty-four-month-olds are more likely to copy the actions of a model who engages in a contingent interaction with them rather than one who does not engage in with them (52).

Further evidence in favour of the claim that young children seek to engage in positive social interactions comes from research on prosocial behaviour (53-55). From as early as 14 months, and more robustly from 18 months, infants help others to achieve their instrumental goals (56,57). Infants will pick up fallen objects for an experimenter, point out the hidden affordances of objects for them and direct their attention towards information of which they are ignorant (56,58). This behaviour is not motivated by a desire for external rewards (59) and occurs with striking regularity across different cultures (60). Although there may be multiple motivations underlying helping behaviour, at least one motivation appears to be affiliation. Over and Carpenter (61) showed that infants who have been primed with photographs depicting a positive social relationship (two dolls standing facing each other) are three times more likely to spontaneously help an experimenter than infants primed with photographs depicting individuality (for example, two dolls standing back to back).

As children get older, it is clear that they often actively seek social contact with others. Rekers, Haun and Tomasello (62) found that when 3-year-old children are given a choice between working cooperatively or working alone to achieve the same reward, they prefer to work cooperate. In related work, Butler and Walton (63) have shown that 4- to 5-year-old children work for longer on a challenging task when they believe that they are collaborating with another child compared to when they believe they are working independently.

In addition to seeking out social contact, young children engage in behaviours that increase the likelihood that potential interaction partners will evaluate them positively (and thus the chance that they will form a bond with them). Important evidence for this claim comes from work on reputation management. Engelmann, Herrmann, & Tomasello (64), for example, showed that five-year-old children share more and steal less when they are being watched by a peer compared to when they are alone (see also 65).

Forming and Maintaining Long-term Bonds

The need to belong perspective emphasises that people are motivated to engage in positive interactions within the context of longer lasting relationships or friendships. In other words, individuals ought to be motivated not just by a desire for social contact, but by a desire to form and maintain long-lasting bonds with others.

From early in development, children form long lasting bonds with their group members. Naturalistic research has demonstrated that even infants have preferences for particular peers, spending more time in the company of some individuals than others (4,66). During the preschool period, children start to form stable patterns of friendship that endure over time (4,67,68). These friendships are characterised by frequent positive interactions including talking, cooperating and positive affect during interaction (69,70). Related experimental research has shown that children recognise that friendship involves preferential treatment, and that they engage in behaviours that serve to maintain these favoured relationships. Olson and Spelke (71), for example, have shown that 3-year-old children direct another individual to share more resources with his or her friends than with a stranger (see also 72).

Further evidence in favour of the claim that children are motivated to maintain relationships with others comes from work investigating reconciliation following conflict. Naturalistic work on children's friendships has shown that although friends engage in conflict at rates similar to those of non-friends, they are distinguished from non-friends in their conflict resolution efforts. Friends

resolve their conflicts more quickly and more amicably than do non-friends (73-75). Furthermore, friends are more likely to interact with each other again in a positive way following disputes than are non-friends (74).

Not only do children seek to reconcile following conflict, they also accept the reconciliation attempts of others. Experimental research has demonstrated, more generally, that children prefer individuals who wish to repair relationships to those who do not: four- to seven-year-old children evaluate an individual who apologises for their wrongdoing more positively than they do an individual who does not apologise or show any remorse (76,77).

Another way to think about whether children seek to maintain bonds with others is to investigate whether they modify their behaviour in order to avoid angering or upsetting their interaction partners. Evidence that they do so from research on white lies (that is, lies told in order to spare the feelings of a social partner). Talwar, Murphy, and Lee (78) investigated how 3- to 11-year-old children responded when they received a disappointing gift from an experimenter. Although children showed their disappointment when alone, when the experimenter returned and asked them whether they liked the gift many answered that they did, and this was true even in the youngest children (see also 79,80). Complementary evidence comes from research on flattery, which has shown that 6-year-old children describe a picture more positively when the person who drew it is present to hear their comments. Furthermore, they show more flattery behaviour with familiar than with unfamiliar individuals, suggesting that they take their pre-existing relationship with the artist into account when deciding how to respond to their picture (81).

Belonging to the Group

Baumeister and Leary (26) focused their original definition of the need to belong to the motivation to form interpersonal relationships. However, the concept of the need to belong has subsequently been extended to groups. Researchers such as Fiske and Brewer have emphasised that humans seek to form long lasting connections particular social groups (35,27,82). In the following

section, I consider this group level perspective, and assess how children interact with, and seek to belong to, the broader social group.

Naturalistic research on children's 'entry behavior' has shown that children are keen to join groups of their peers and use a range of strategies in order to do so. Children who are initially rebuffed by a group in these naturalistic settings often make repeated attempts to join them (see, for example, 83).

Experimental research investigating how children interact once they have been placed within a group has shown that they often seek to match their behavior to that of their group members (84-86). Haun and Tomasello (86), for example, tested 4-year-old children within a modified version of the Asch task and demonstrated that children conformed to the incorrect opinions of their group members approximately one third of the time, and three quarters of children conformed on at least one trial. Importantly, in a second experiment where children were allowed to give their answer in private, conformity levels were significantly lower. This suggests that children had not changed their opinion in light of the groups' answers but rather that they sought to match their outward behaviour to that of the group. One interpretation of these results is that children were seeking to be accepted by the group and avoid the group's disapproval.

The ease with which individuals become attached to groups may also speak to the power of the need to belong (26). Indeed, very subtle cues to group membership are sufficient to influence children's social behavior. From at least the age of five, children are sensitive to minimal group manipulations. Children are more generous towards their ingroup members than towards outgroup members and remember relatively more positive information about their ingroup members, even when the groups are based on arbitrary criteria such as shirt colour (87, see also 22).

As outlined above, belonging involves long-term commitments to relationships. Recent work shows that children are committed to their groups, at least in the short term, remaining loyal to their group even when it is personally costly to do so. Misch, Over and Carpenter (88) allocated five-year-old children to groups (following a minimal group procedure) and then ensured that they overheard a

secret from either their own group or the other group. When bribed with stickers to reveal the secret, children were significantly less willing to reveal it when it belonged to their own group. In other words, they paid a cost (in terms of stickers forfeited) in order to remain loyal to their group.

Other research has demonstrated that older children value belonging and group functioning and take it into account when making moral decisions. For example, Killen and colleagues have shown that children take concerns about how well the group will function into account when considering whether to include a group member (e.g., 89).

Consequences of Social Exclusion

Belonging is conceptualized as a need rather than a mere desire (26). If it is indeed a need, then a lack of social contact should be distressing. Furthermore, if the lack of contact continues for a prolonged period, then it should have negative consequences for health and well-being (90). Social psychological research has investigated how adults respond to more or less complete ostracism from a group (such as exclusion from an online ball game, 91) as well as to more subtle cues to exclusion from particular individuals such as a refusal to make eye contact (92,93).

From infancy, children find even a relatively brief removal of social contact distressing. When a mother, or an experimenter, stops interacting with an infant, the infant shows increased negative affect, reduced smiling and increased gaze aversion (94). This may represent the origins of sensitivity to social exclusion. When older children (8- and 9-year-olds) are excluded from an online ball game in the lab, it impacts negatively on their mood, their self esteem, their sense of control and even the extent to which they judge their own existence to be meaningful (95-97). Prolonged social exclusion has been shown to have serious consequences for children's adjustment during the school years (see 98).

If children are motivated to belong, then we might expect them to respond to the withdrawal of social contact with behaviours that serve to re-establish their sense of belonging (99). Research with infants and toddlers has shown that when an individual stops interacting with them, for example

by disengaging from a cooperative task, they seek to reengage that individual's attention and participation in the task (100,101). Research investigating responses to ostracism more directly has been conducted by Over and Carpenter (99). Over and Carpenter tested how a vicarious experience of ostracism influences children's social behavior. They presented five-year-old children with primes in which one shape appeared to be excluded from a group of other shapes. Children shown this video engaged in significantly more imitation of an experimenter's actions on an object than did children shown videos that did not depict social exclusion. This result has recently been replicated and extended by Watson-Jones and colleagues who have shown that children imitate more closely on a number of tasks following videos depicting exclusion than following videos depicting inclusion (102). Further research using this basic paradigm has shown that children also draw pictures that depict more affiliative relationships following priming with exclusion (103).

Broader Implications

Understanding Atypical Development

I have argued, thus far, that the need to belong is an important force in development. This focus on the belonging needs can help us to understand atypical, as well as typical, development. For example, Chevalier, Kohls, Troiani, Brodtkin, & Schultz (12) have recently suggested a social motivation theory of autism (see also 104,105). Rather than focusing on the cognitive deficits present in autism (106,107), they focus instead on deficits in orienting towards social stimuli, seeking out social contact and maintaining social relationships. The latter two bear a striking resemblance to the need to belong (26). Empirical research has shown that children with autism are less likely to help and cooperate with others (108), less likely to point declaratively for their social partners (109) and less likely to engage in joint attention with them (110). In terms of a deficit in maintaining long-term bonds, adults with autism report having a lower interest in friendships than do individuals in the normal population (111). According to the social motivation account, it is the deficit in social motivation that has downstream consequences for social cognition and behaviour rather than vice

versa (12, 112). Understanding the exact nature of the social motivational deficits in autism, perhaps aided by social psychological accounts of the need to belong, has important implications for designing interventions to enhance social functioning.

Enhancing Social Inclusion

Understanding the importance of social motivation and the need to belong has implications for designing effective interventions to enhance social inclusion in typically developing children. Walton and Cohen (113) designed a brief intervention to enhance perceptions of belonging among minority, African American, college students in the United States. This intervention led to higher grade point averages among minority students over three years and to improvements in self-reported well-being and health. The effectiveness of this intervention was mediated by subjective construal meaning that the intervention prevented minority students from seeing day-to-day adversity as evidence that they did not belong. Understanding the root of the problem in terms of the need to belong made a brief intervention extremely effective (30). Related developmental research has shown that a sense of belonging to a group can enhance achievement motivation in preschool children (25), suggesting that work on belonging can have important implications for educational research (114).

Priorities for Future Research

The focus on social motivation offers a different perspective on development where the main question is not *whether* children are capable of performing a particular skill but *when* they engage in particular processing and behaviour and *why* they do so. For example, it enables us to ask under what circumstances children imitate the actions of their group members (52,99), help others to achieve their goals (64,61,115,116) and process their mental states (117). A focus on social motivation is thus an important step towards understanding children's strategic social behaviour.

For a more complete understanding of the origins of belonging, as one aspect of social motivation, it will be important to answer the five broad questions that I outline below. First, what is

the relationship between social motivation and social competence? Social competence is typically thought to result from advanced cognitive abilities. However, as Chevalier and colleagues (12) point out, social motivation might be key to understanding why some children are more socially competent than others. Children high in social motivation might be more inclined to engage in effortful processing in order to understand (and sympathise) with others. Furthermore, they might be more inclined to seek out particular experiences and interactions. Experience with these interactions might enable them to develop more sophisticated cognitive abilities. If this is the case, then the strength of children's social motivation early in development ought to predict their social cognitive abilities later in development (118). Children's maturing cognitive abilities (for example, how they conceptualise themselves within social groups) may also influence their social motivation. The interaction between social cognition and social motivation is likely to exert a powerful influence over development and so is a critical question for future research.

Second, does the need to belong change across development and, if so, why? The question of developmental change is usually focused on cognitive ability. It will be important for future research to examine whether there are changes in the strength, or even in the nature, of social motivation over time. There are already some hints in the literature that social motivation changes across development. For example, Nielsen (51) investigated imitation in infants and found that 18-month-olds are more motivated to copy the specific actions of a demonstrator than are twelve-month-olds. Sensitivity to exclusion also appears to change with development; adolescents appear to be more negatively affected by ostracism than are younger children (95). Future research ought to investigate continuity and change in motivation in more detail.

Third, how does the need to belong relate to other motivations? Children often have multiple motivations within social situations. For example, like adults, children are also strongly motivated by a desire for personal gain (119,120). In the real world, social and selfish motivations regularly conflict with each other (121) and children must decide how to regulate their position in the group while, at the same time, accruing benefits for themselves (64,122,123). It will be important for future

research to investigate how the strength of different motivations, and the interactions between them, influence children's cognition and behaviour.

Fourth, how does the need to belong vary with cultural context? Although the need to belong perspective suggests that the basic motivation to form and maintain bonds with others ought to be culturally universal (26), there may be important differences in the strength of the motivation and in how it is expressed. For example, recent cross-cultural research has emphasized the importance of the level of interdependence within a cultural for understanding the consequences of social exclusion (124). It will be important for future research to investigate the origins of these cultural differences in development (125-127).

Finally, what are the evolutionary origins of belonging? It is often assumed that the need to belong has deep roots in our evolutionary history (26; 31). However, this assumption has not been carefully assessed. Claims regarding evolutionary origins can only be justified by a systematic examination of the developmental and comparative evidence regarding social motivation. Only once this evidence has been laid out, can similarities and differences between belonging in humans and other social animals be understood.

Conclusion

I have argued that understanding the need to belong is critical to understanding development. I have presented evidence that the need to form and maintain bonds with others exerts a powerful influence over children's behaviour from early in development. In outlining this argument, I have sought to bring together seemingly disparate results within developmental psychology and to forge links between developmental and social psychological research.

In their 1995 paper, Baumeister and Leary argued that, if social psychologists had erred in thinking about the need to belong, it was not to deny its existence but rather to underestimate its effects (26). Something similar could be said about research with young children almost 20 years later. Although social motivation is often mentioned in experimental research with infants and young

children, it is not often (or not often enough) the direct focus of study. I have sought to point the way towards a new programme of research that systematically investigates the importance of the need to belong in early development. In doing so, this research agenda may also shed fresh light on mature social cognition and behaviour: only through understanding its origins, can we hope to understand the nature of the mature social mind.

Additional Information

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Competing Interests

I have no competing interests

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